

## Recombinant Human Aurora Kinase A, His-tagged

**Cat. No.** AURKA-683H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Aurora A kinase (amino acids 2-403) fused at the N-terminus to a His Tag sequence was expressed in <i>S. frugiperda</i> insect cells using a baculovirus expression system. Aurora A plays an important role in chromosome segregation and cell division. MW = 50 kDa.
<b>Species</b>	Human
<b>Source</b>	<i>S. frugiperda</i>
<b>Protein Length</b>	2-403 a.a.
<b>Description</b>	Aurora A kinase also known as serine/threonine-protein kinase 6 is an enzyme that in humans is encoded by the AURKA gene. Aurora A is a member of a family of mitotic serine/threonine kinases. It is implicated with important processes during mitosis and meiosis whose proper function is integral for healthy cell proliferation. Aurora A is activated by one or more phosphorylations and its activity peaks during the G2 phase to M phase transition in the cell cycle.
<b>Form</b>	Liquid. In 100 mM NaCl, 25 mM Tris-HCl, 3 mM DTT, 50% glycerol, 0.05% Tween-20 Detergent, pH 7.5. Please refer to vial label for lot-specific concentration.
<b>Unit Definition</b>	One unit is defined as the amount of enzyme that will phosphorylate 1 pmol of Ser/Thr 1 peptide substrate per min at 30°C, pH 7.4.
<b>Purity</b>	≥90% by SDS-PAGE.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Specific Activity</b>	≥120 U/μg protein.
<b>Toxicity</b>	Regulatory Review.
<b>Storage</b>	≤ -70°C. Avoid freeze/thaw Following initial thaw, aliquot and freeze (-70°C).

## GENE INFORMATION

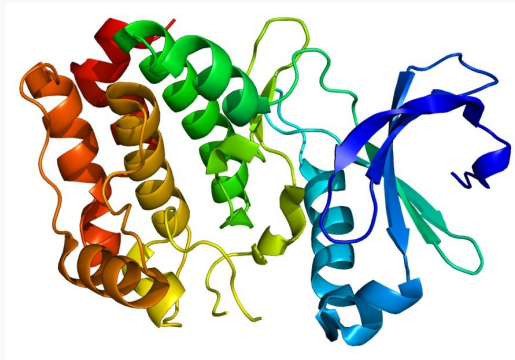
<b>Gene Name</b>	<a href="#">AURKA</a> <i>aurora kinase A</i> [ <i>Homo sapiens</i> ]
<b>Synonyms</b>	aurora kinase A; AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; MGC34538; AURKA; serine/threonine-protein kinase 6; ARK-1; hARK1; OTTHUMP00000031341; OTTHUMP00000166072; IPL1-related kinase; aurora-related kinase 1; aurora/IPL1-like kinase; serine/threonine kinase 6; aurora/IPL1-related kinase 1; breast tumor-amplified kinase; breast-tumor-amplified kinase; serine/threonine protein kinase 15; serine/threonine-protein kinase 15; serine/threonine-protein kinase aurora-A; Aurora/IPL1-related kinase 1; Serine/threonine-protein kinase aurora-A; Aurora-related kinase 1; Serine/threonine-protein kinase 15; Breast tumor-amplified kinase; EC 2.7.11.1; AurA
<b>Gene ID</b>	<a href="#">6790</a>
<b>mRNA Refseq</b>	<a href="#">NM_003600</a>
<b>Protein Refseq</b>	<a href="#">NP_003591</a>
<b>MIM</b>	<a href="#">603072</a>
<b>UniProt ID</b>	<a href="#">O14965</a>
<b>Chromosome</b>	20q13.2-q13.3

**Location****Pathway**

Oocyte meiosis; Cell Cycle, Mitotic

**Function**

ATP binding; nucleotide binding; protein binding; protein kinase activity; protein kinase binding; protein serine/threonine kinase activity; transferase activity; ubiquitin protein ligase binding

**PDB rendering based on 1mq4.** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA